

Civitas - CO

Sample Delivery Group: L1884501
Samples Received: 08/02/2025
Project Number: 24598
Description: Zisch 23-6

Report To: Civitas-Tasman
4725 Independence
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Entire Report Reviewed By:



Mandi Edwards
Project Manager

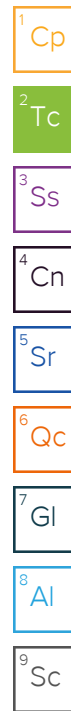
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Pace Analytical National

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SAMPLE SUMMARY

FL-B04@4' L1884501-01

Collected by Don Tyson
 Collected date/time 07/31/25 14:05
 Received date/time 08/02/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2577807	1	08/13/25 20:00	08/13/25 20:00	NMM	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2579934	1	08/27/25 17:16	08/28/25 22:40	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2580166	1	08/14/25 17:53	08/24/25 20:30	AVB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2580172	1	08/14/25 17:58	08/26/25 15:53	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2577818	1	08/12/25 11:17	08/12/25 22:14	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2575530	5	08/08/25 07:30	08/25/25 14:37	JDB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D	WG2572947	25	08/04/25 13:40	08/05/25 18:33	AEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2573489	1	08/04/25 13:40	08/06/25 10:57	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2575954	1	08/09/25 07:05	08/09/25 20:07	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2575737	1	08/08/25 16:12	08/13/25 01:29	DMG	Mt. Juliet, TN



FL-B13@4' L1884501-02

Collected by Don Tyson
 Collected date/time 07/31/25 14:50
 Received date/time 08/02/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2577807	1	08/13/25 20:02	08/13/25 20:02	NMM	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2579934	1	08/27/25 17:16	08/28/25 22:51	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2580166	1	08/14/25 17:53	08/24/25 20:30	AVB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2580172	1	08/14/25 17:58	08/26/25 15:53	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2577818	1	08/12/25 11:17	08/12/25 22:17	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2575530	5	08/08/25 07:30	08/25/25 15:25	JDB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D	WG2572947	25	08/04/25 13:40	08/05/25 18:57	AEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2573489	1	08/04/25 13:40	08/06/25 11:17	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2575954	1	08/09/25 07:05	08/09/25 19:24	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2575737	1	08/08/25 16:12	08/13/25 01:46	DMG	Mt. Juliet, TN

FL-B14@4' L1884501-03

Collected by Don Tyson
 Collected date/time 07/31/25 14:55
 Received date/time 08/02/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2577807	1	08/13/25 20:03	08/13/25 20:03	NMM	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2579934	1	08/27/25 17:16	08/28/25 23:01	SET	Mt. Juliet, TN
Wet Chemistry by Method 9045D (S-1.10)	WG2580166	1	08/14/25 17:53	08/24/25 20:30	AVB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod (S-1.20)	WG2580172	1	08/14/25 17:58	08/26/25 15:53	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010D (S-7.10)	WG2577818	1	08/12/25 11:17	08/12/25 22:20	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2575530	5	08/08/25 07:30	08/25/25 17:42	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D	WG2572947	25	08/04/25 13:40	08/05/25 19:20	AEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2573489	1	08/04/25 13:40	08/06/25 11:37	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2575954	1	08/09/25 07:05	08/09/25 19:38	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2575737	1	08/08/25 16:12	08/13/25 02:04	DMG	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mandi Edwards
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

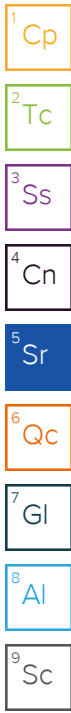
⁷ Gl

⁸ Al

⁹ Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.46		1	08/13/2025 20:00	WG2577807



Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	0.200	1	08/28/2025 22:40	WG2579934

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.93		1	08/24/2025 20:30	WG2580166

Sample Narrative:

L1884501-01 WG2580166: 7.93 at 22.2C

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	2450	umhos/cm		10.0	1	08/26/2025 15:53	WG2580172

Sample Narrative:

L1884501-01 WG2580172: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.0322	J	0.0199	0.100	1	08/12/2025 22:14	WG2577818

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.98		0.100	0.100	5	08/25/2025 14:37	WG2575530
Barium	101		10.0	10.0	5	08/25/2025 14:37	WG2575530
Cadmium	0.123		0.100	0.100	5	08/25/2025 14:37	WG2575530
Copper	10.3		10.0	10.0	5	08/25/2025 14:37	WG2575530
Lead	11.7		10.0	10.0	5	08/25/2025 14:37	WG2575530
Nickel	15.7		10.0	10.0	5	08/25/2025 14:37	WG2575530
Selenium	0.885		0.100	0.100	5	08/25/2025 14:37	WG2575530
Silver	ND		0.500	0.500	5	08/25/2025 14:37	WG2575530
Zinc	52.6		50.0	50.0	5	08/25/2025 14:37	WG2575530

Volatile Organic Compounds (GC) by Method 8015D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		2.00	2.50	25	08/05/2025 18:33	WG2572947
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		08/05/2025 18:33	WG2572947

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	ND		0.00100	0.00100	1	08/06/2025 10:57	WG2573489
Ethylbenzene	ND		0.0100	0.0100	1	08/06/2025 10:57	WG2573489
Toluene	ND		0.0100	0.0100	1	08/06/2025 10:57	WG2573489
1,2,4-Trimethylbenzene	ND		0.00500	0.00500	1	08/06/2025 10:57	WG2573489
1,3,5-Trimethylbenzene	ND		0.00500	0.00500	1	08/06/2025 10:57	WG2573489
Xylenes, Total	ND		0.100	0.100	1	08/06/2025 10:57	WG2573489
(S) Toluene-d8	91.4			75.0-131		08/06/2025 10:57	WG2573489
(S) 4-Bromofluorobenzene	93.9			67.0-138		08/06/2025 10:57	WG2573489
(S) 1,2-Dichloroethane-d4	111			70.0-130		08/06/2025 10:57	WG2573489

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	ND		1.61	4.00	1	08/09/2025 20:07	WG2575954
C28-C36 Motor Oil Range	4.57	<u>B</u>	0.274	4.00	1	08/09/2025 20:07	WG2575954
(S) o-Terphenyl	59.9			18.0-148		08/09/2025 20:07	WG2575954

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acenaphthene	ND		0.0330	0.0330	1	08/13/2025 01:29	WG2575737
Anthracene	ND		0.0330	0.0330	1	08/13/2025 01:29	WG2575737
Benzo(a)anthracene	ND		0.00600	0.00600	1	08/13/2025 01:29	WG2575737
Benzo(b)fluoranthene	ND		0.0330	0.0330	1	08/13/2025 01:29	WG2575737
Benzo(k)fluoranthene	ND		0.0330	0.0330	1	08/13/2025 01:29	WG2575737
Benzo(a)pyrene	ND		0.0330	0.0330	1	08/13/2025 01:29	WG2575737
Chrysene	ND		0.0330	0.0330	1	08/13/2025 01:29	WG2575737
Dibenz(a,h)anthracene	ND		0.0330	0.0330	1	08/13/2025 01:29	WG2575737
Fluoranthene	ND		0.0330	0.0330	1	08/13/2025 01:29	WG2575737
Fluorene	ND		0.0330	0.0330	1	08/13/2025 01:29	WG2575737
Indeno(1,2,3-cd)pyrene	ND		0.0330	0.0330	1	08/13/2025 01:29	WG2575737
1-Methylnaphthalene	ND		0.00300	0.00300	1	08/13/2025 01:29	WG2575737
2-Methylnaphthalene	ND		0.0120	0.0120	1	08/13/2025 01:29	WG2575737
Naphthalene	ND		0.00300	0.00300	1	08/13/2025 01:29	WG2575737
Pyrene	ND		0.0330	0.0330	1	08/13/2025 01:29	WG2575737
(S) p-Terphenyl-d14	89.9			23.0-120		08/13/2025 01:29	WG2575737
(S) Nitrobenzene-d5	94.9			14.0-149		08/13/2025 01:29	WG2575737
(S) 2-Fluorobiphenyl	89.2			34.0-125		08/13/2025 01:29	WG2575737

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.518		1	08/13/2025 20:02	WG2577807

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.211		0.200	0.200	1	08/28/2025 22:51	WG2579934

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.09		1	08/24/2025 20:30	WG2580166

Sample Narrative:

L1884501-02 WG2580166: 8.09 at 22.3C

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	493	umhos/cm		10.0	1	08/26/2025 15:53	WG2580172

Sample Narrative:

L1884501-02 WG2580172: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.0415	J	0.0199	0.100	1	08/12/2025 22:17	WG2577818

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Arsenic	6.42		0.100	0.100	5	08/25/2025 15:25	WG2575530
Barium	158		10.0	10.0	5	08/25/2025 15:25	WG2575530
Cadmium	0.263		0.100	0.100	5	08/25/2025 15:25	WG2575530
Copper	17.3		10.0	10.0	5	08/25/2025 15:25	WG2575530
Lead	16.1		10.0	10.0	5	08/25/2025 15:25	WG2575530
Nickel	20.6		10.0	10.0	5	08/25/2025 15:25	WG2575530
Selenium	0.613		0.100	0.100	5	08/25/2025 15:25	WG2575530
Silver	ND		0.500	0.500	5	08/25/2025 15:25	WG2575530
Zinc	81.6		50.0	50.0	5	08/25/2025 15:25	WG2575530

Volatile Organic Compounds (GC) by Method 8015D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		2.00	2.50	25	08/05/2025 18:57	WG2572947
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		08/05/2025 18:57	WG2572947

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	ND		0.00100	0.00100	1	08/06/2025 11:17	WG2573489
Ethylbenzene	ND		0.0100	0.0100	1	08/06/2025 11:17	WG2573489
Toluene	ND		0.0100	0.0100	1	08/06/2025 11:17	WG2573489
1,2,4-Trimethylbenzene	ND		0.00500	0.00500	1	08/06/2025 11:17	WG2573489
1,3,5-Trimethylbenzene	ND		0.00500	0.00500	1	08/06/2025 11:17	WG2573489
Xylenes, Total	ND		0.100	0.100	1	08/06/2025 11:17	WG2573489
(S) Toluene-d8	93.0			75.0-131		08/06/2025 11:17	WG2573489
(S) 4-Bromofluorobenzene	93.8			67.0-138		08/06/2025 11:17	WG2573489
(S) 1,2-Dichloroethane-d4	109			70.0-130		08/06/2025 11:17	WG2573489

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	ND		1.61	4.00	1	08/09/2025 19:24	WG2575954
C28-C36 Motor Oil Range	4.32	<u>B</u>	0.274	4.00	1	08/09/2025 19:24	WG2575954
(S) o-Terphenyl	57.5			18.0-148		08/09/2025 19:24	WG2575954

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acenaphthene	ND		0.0330	0.0330	1	08/13/2025 01:46	WG2575737
Anthracene	ND		0.0330	0.0330	1	08/13/2025 01:46	WG2575737
Benzo(a)anthracene	ND		0.00600	0.00600	1	08/13/2025 01:46	WG2575737
Benzo(b)fluoranthene	ND		0.0330	0.0330	1	08/13/2025 01:46	WG2575737
Benzo(k)fluoranthene	ND		0.0330	0.0330	1	08/13/2025 01:46	WG2575737
Benzo(a)pyrene	ND		0.0330	0.0330	1	08/13/2025 01:46	WG2575737
Chrysene	ND		0.0330	0.0330	1	08/13/2025 01:46	WG2575737
Dibenz(a,h)anthracene	ND		0.0330	0.0330	1	08/13/2025 01:46	WG2575737
Fluoranthene	ND		0.0330	0.0330	1	08/13/2025 01:46	WG2575737
Fluorene	ND		0.0330	0.0330	1	08/13/2025 01:46	WG2575737
Indeno(1,2,3-cd)pyrene	ND		0.0330	0.0330	1	08/13/2025 01:46	WG2575737
1-Methylnaphthalene	ND		0.00300	0.00300	1	08/13/2025 01:46	WG2575737
2-Methylnaphthalene	ND		0.0120	0.0120	1	08/13/2025 01:46	WG2575737
Naphthalene	ND		0.00300	0.00300	1	08/13/2025 01:46	WG2575737
Pyrene	ND		0.0330	0.0330	1	08/13/2025 01:46	WG2575737
(S) p-Terphenyl-d14	100			23.0-120		08/13/2025 01:46	WG2575737
(S) Nitrobenzene-d5	102			14.0-149		08/13/2025 01:46	WG2575737
(S) 2-Fluorobiphenyl	95.0			34.0-125		08/13/2025 01:46	WG2575737

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

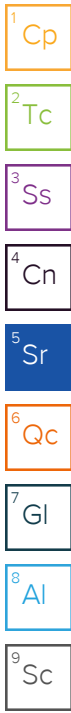
7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.734		1	08/13/2025 20:03	WG2577807



Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.351		0.200	0.200	1	08/28/2025 23:01	WG2579934

Wet Chemistry by Method 9045D (S-1.10)

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.72		1	08/24/2025 20:30	WG2580166

Sample Narrative:

L1884501-03 WG2580166: 7.72 at 21.8C

Wet Chemistry by Method 9050AMod (S-1.20)

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	900	umhos/cm		10.0	1	08/26/2025 15:53	WG2580172

Sample Narrative:

L1884501-03 WG2580172: at 25C

Metals (ICP) by Method 6010D (S-7.10)

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.0299	J	0.0199	0.100	1	08/12/2025 22:20	WG2577818

Metals (ICPMS) by Method 6020B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.26		0.100	0.100	5	08/25/2025 17:42	WG2575530
Barium	161		10.0	10.0	5	08/25/2025 17:42	WG2575530
Cadmium	0.199		0.100	0.100	5	08/25/2025 17:42	WG2575530
Copper	16.4		10.0	10.0	5	08/25/2025 17:42	WG2575530
Lead	14.8		10.0	10.0	5	08/25/2025 17:42	WG2575530
Nickel	19.9		10.0	10.0	5	08/25/2025 17:42	WG2575530
Selenium	0.609		0.100	0.100	5	08/25/2025 17:42	WG2575530
Silver	ND		0.500	0.500	5	08/25/2025 17:42	WG2575530
Zinc	78.9		50.0	50.0	5	08/25/2025 17:42	WG2575530

Volatile Organic Compounds (GC) by Method 8015D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		2.00	2.50	25	08/05/2025 19:20	WG2572947
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		08/05/2025 19:20	WG2572947

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	ND		0.00100	0.00100	1	08/06/2025 11:37	WG2573489
Ethylbenzene	ND		0.0100	0.0100	1	08/06/2025 11:37	WG2573489
Toluene	ND		0.0100	0.0100	1	08/06/2025 11:37	WG2573489
1,2,4-Trimethylbenzene	ND		0.00500	0.00500	1	08/06/2025 11:37	WG2573489
1,3,5-Trimethylbenzene	ND		0.00500	0.00500	1	08/06/2025 11:37	WG2573489
Xylenes, Total	ND		0.100	0.100	1	08/06/2025 11:37	WG2573489
(S) Toluene-d8	95.4			75.0-131		08/06/2025 11:37	WG2573489
(S) 4-Bromofluorobenzene	97.4			67.0-138		08/06/2025 11:37	WG2573489
(S) 1,2-Dichloroethane-d4	109			70.0-130		08/06/2025 11:37	WG2573489

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	ND		1.61	4.00	1	08/09/2025 19:38	WG2575954
C28-C36 Motor Oil Range	3.25	<u>B J</u>	0.274	4.00	1	08/09/2025 19:38	WG2575954
(S) o-Terphenyl	50.2			18.0-148		08/09/2025 19:38	WG2575954

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acenaphthene	ND		0.0330	0.0330	1	08/13/2025 02:04	WG2575737
Anthracene	ND		0.0330	0.0330	1	08/13/2025 02:04	WG2575737
Benzo(a)anthracene	ND		0.00600	0.00600	1	08/13/2025 02:04	WG2575737
Benzo(b)fluoranthene	ND		0.0330	0.0330	1	08/13/2025 02:04	WG2575737
Benzo(k)fluoranthene	ND		0.0330	0.0330	1	08/13/2025 02:04	WG2575737
Benzo(a)pyrene	ND		0.0330	0.0330	1	08/13/2025 02:04	WG2575737
Chrysene	ND		0.0330	0.0330	1	08/13/2025 02:04	WG2575737
Dibenz(a,h)anthracene	ND		0.0330	0.0330	1	08/13/2025 02:04	WG2575737
Fluoranthene	ND		0.0330	0.0330	1	08/13/2025 02:04	WG2575737
Fluorene	ND		0.0330	0.0330	1	08/13/2025 02:04	WG2575737
Indeno(1,2,3-cd)pyrene	ND		0.0330	0.0330	1	08/13/2025 02:04	WG2575737
1-Methylnaphthalene	ND		0.00300	0.00300	1	08/13/2025 02:04	WG2575737
2-Methylnaphthalene	ND		0.0120	0.0120	1	08/13/2025 02:04	WG2575737
Naphthalene	ND		0.00300	0.00300	1	08/13/2025 02:04	WG2575737
Pyrene	ND		0.0330	0.0330	1	08/13/2025 02:04	WG2575737
(S) p-Terphenyl-d14	96.4			23.0-120		08/13/2025 02:04	WG2575737
(S) Nitrobenzene-d5	100			14.0-149		08/13/2025 02:04	WG2575737
(S) 2-Fluorobiphenyl	95.5			34.0-125		08/13/2025 02:04	WG2575737

Method Blank (MB)

(MB) R4265987-1 08/28/25 17:37

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Hexavalent Chromium	ND		0.200	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1884466-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1884466-02 08/28/25 17:57 • (DUP) R4265987-3 08/28/25 18:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	0.376	0.392	1	4.42		20

L1884495-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1884495-06 08/28/25 20:35 • (DUP) R4265987-4 08/28/25 20:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	0.203	0.255	1	22.6	P1	20

Laboratory Control Sample (LCS)

(LCS) R4265987-2 08/28/25 17:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Hexavalent Chromium	10.0	10.2	102	80.0-120	

L1884495-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1884495-08 08/28/25 21:06 • (MS) R4265987-5 08/28/25 21:17 • (MSD) R4265987-6 08/28/25 21:48

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Hexavalent Chromium	20.0	ND	18.8	18.6	93.9	93.2	1	75.0-125			0.769	20

L1884495-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1884495-08 08/28/25 21:06 • (MS) R4265987-8 08/28/25 21:59

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Hexavalent Chromium	654	ND	846	129	50	75.0-125	J5

L1884495-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1884495-01 08/24/25 20:30 • (DUP) R4263103-2 08/24/25 20:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.65	7.71	1	0.781		1

Sample Narrative:
OS: 7.65 at 21.8C
DUP: 7.71 at 21.4C

L1885098-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1885098-02 08/24/25 20:30 • (DUP) R4263103-3 08/24/25 20:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.24	7.22	1	0.277		1

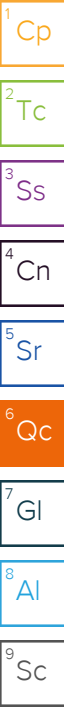
Sample Narrative:
OS: 7.24 at 21.3C
DUP: 7.22 at 21.4C

Laboratory Control Sample (LCS)

(LCS) R4263103-1 08/24/25 20:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.99	99.9	99.0-101	

Sample Narrative:
LCS: 9.99 at 21.8C



Method Blank (MB)

(MB) R4264306-1 08/26/25 15:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Specific Conductance	umhos/cm		umhos/cm	umhos/cm
	ND		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1884495-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1884495-02 08/26/25 15:53 • (DUP) R4264306-3 08/26/25 15:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	umhos/cm	umhos/cm		%		%
	3540	3480	1	1.71		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1885084-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1885084-01 08/26/25 15:53 • (DUP) R4264306-4 08/26/25 15:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	umhos/cm	umhos/cm		%		%
	140	139	1	0.716		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4264306-2 08/26/25 15:53

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Specific Conductance	umhos/cm	umhos/cm	%	%	
	581	585	101	90.0-110	

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R4257807-1 08/12/25 21:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	ND		0.0199	0.100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4257807-2 08/12/25 21:29 • (LCSD) R4257807-3 08/12/25 21:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	0.960	0.967	96.0	96.7	80.0-120			0.711	20

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4263753-1 08/25/25 14:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	ND		0.100	0.100
Barium	ND		10.0	10.0
Cadmium	ND		0.100	0.100
Copper	ND		10.0	10.0
Lead	ND		10.0	10.0
Nickel	ND		10.0	10.0
Selenium	ND		0.100	0.100
Silver	ND		0.500	0.500
Zinc	ND		50.0	50.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R4263753-2 08/25/25 14:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	116	116	80.0-120	
Barium	100	112	112	80.0-120	
Cadmium	100	117	117	80.0-120	
Copper	100	119	119	80.0-120	
Lead	100	115	115	80.0-120	
Nickel	100	118	118	80.0-120	
Selenium	100	115	115	80.0-120	
Silver	20.0	23.3	116	80.0-120	
Zinc	100	116	116	80.0-120	

⁷Gl

⁸Al

⁹Sc

L1884501-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1884501-01 08/25/25 14:37 • (MS) R4263753-5 08/25/25 14:46 • (MSD) R4263753-6 08/25/25 14:49

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	5.98	112	116	106	110	5	75.0-125			2.89	20
Barium	100	101	208	212	107	111	5	75.0-125			1.93	20
Cadmium	100	0.123	106	108	106	108	5	75.0-125			1.97	20
Copper	100	10.3	117	118	106	108	5	75.0-125			1.55	20
Lead	100	11.7	116	118	104	106	5	75.0-125			1.82	20
Nickel	100	15.7	122	125	106	110	5	75.0-125			2.80	20
Selenium	100	0.885	107	108	106	107	5	75.0-125			0.975	20
Silver	20.0	ND	21.2	21.8	106	109	5	75.0-125			2.67	20
Zinc	100	52.6	157	162	104	109	5	75.0-125			3.20	20

Method Blank (MB)

(MB) R4255152-1 08/05/25 09:50

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPH (GC/FID) Low Fraction	ND		2.00	2.50
(S) a,a,a-Trifluorotoluene(FID)	105			77.0-120

Laboratory Control Sample (LCS)

(LCS) R4255152-2 08/05/25 10:20

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TPH (GC/FID) Low Fraction	5.00	4.25	85.0	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			113	77.0-120	

L1884503-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1884503-03 08/05/25 20:07 • (MS) R4255152-3 08/05/25 20:55 • (MSD) R4255152-4 08/05/25 21:19

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPH (GC/FID) Low Fraction	125	43.4	162	158	94.9	91.7	25	10.0-151			2.50	28
(S) a,a,a-Trifluorotoluene(FID)					114	114		77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4256876-3 08/06/25 10:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	ND		0.00100	0.00100
Ethylbenzene	ND		0.0100	0.0100
Toluene	ND		0.0100	0.0100
1,2,4-Trimethylbenzene	ND		0.00500	0.00500
1,3,5-Trimethylbenzene	ND		0.00500	0.00500
Xylenes, Total	ND		0.100	0.100
(S) Toluene-d8	92.3			75.0-131
(S) 4-Bromofluorobenzene	95.6			67.0-138
(S) 1,2-Dichloroethane-d4	111			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

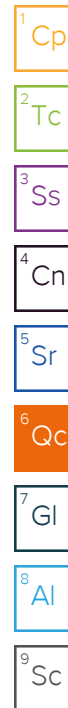
(LCS) R4256876-1 08/06/25 08:57 • (LCSD) R4256876-2 08/06/25 09:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.625	0.618	0.600	98.9	96.0	70.0-123			2.96	20
Ethylbenzene	0.625	0.569	0.532	91.0	85.1	74.0-126			6.72	20
Toluene	0.625	0.570	0.544	91.2	87.0	75.0-121			4.67	20
1,2,4-Trimethylbenzene	0.625	0.697	0.678	112	108	70.0-126			2.76	20
1,3,5-Trimethylbenzene	0.625	0.703	0.681	112	109	73.0-127			3.18	20
Xylenes, Total	1.88	1.67	1.59	88.8	84.6	72.0-127			4.91	20
(S) Toluene-d8				92.0	91.1	75.0-131				
(S) 4-Bromofluorobenzene				93.9	93.8	67.0-138				
(S) 1,2-Dichloroethane-d4				123	125	70.0-130				

L1884509-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1884509-03 08/06/25 16:36 • (MS) R4256876-4 08/06/25 17:35 • (MSD) R4256876-5 08/06/25 17:55

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.625	ND	0.665	0.648	106	104	1	10.0-149			2.59	37
Ethylbenzene	0.625	ND	0.694	0.584	111	93.4	1	10.0-160			17.2	38
Toluene	0.625	ND	0.691	0.577	111	92.3	1	10.0-156			18.0	38
1,2,4-Trimethylbenzene	0.625	0.0273	0.800	0.746	124	115	1	10.0-160			6.99	36
1,3,5-Trimethylbenzene	0.625	ND	0.757	0.737	121	118	1	10.0-160			2.68	38
Xylenes, Total	1.88	ND	2.06	1.72	110	91.5	1	10.0-160			18.0	38
(S) Toluene-d8					111	89.9		75.0-131				
(S) 4-Bromofluorobenzene					143	105		67.0-138	J1			
(S) 1,2-Dichloroethane-d4					119	118		70.0-130				



Method Blank (MB)

(MB) R4256621-1 08/09/25 15:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	ND		1.61	4.00
C28-C36 Motor Oil Range	0.669	J	0.274	4.00
(S) o-Terphenyl	64.1			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4256621-2 08/09/25 16:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	43.5	87.0	50.0-150	
(S) o-Terphenyl			55.4	18.0-148	

L1884503-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1884503-01 08/09/25 22:41 • (MS) R4256621-3 08/09/25 22:55 • (MSD) R4256621-4 08/09/25 23:09

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	47.7	65.0	124	99.5	124	72.9	1	50.0-150		J3	21.9	20
(S) o-Terphenyl					33.5	35.1		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4257884-2 08/12/25 18:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	ND		0.0330	0.0330
Anthracene	ND		0.0330	0.0330
Benzo(a)anthracene	ND		0.00600	0.00600
Benzo(b)fluoranthene	ND		0.0330	0.0330
Benzo(k)fluoranthene	ND		0.0330	0.0330
Benzo(a)pyrene	ND		0.0330	0.0330
Chrysene	ND		0.0330	0.0330
Dibenz(a,h)anthracene	ND		0.0330	0.0330
Fluoranthene	ND		0.0330	0.0330
Fluorene	ND		0.0330	0.0330
Indeno(1,2,3-cd)pyrene	ND		0.0330	0.0330
1-Methylnaphthalene	ND		0.00300	0.00300
2-Methylnaphthalene	ND		0.0120	0.0120
Naphthalene	ND		0.00300	0.00300
Pyrene	ND		0.0330	0.0330
(S) p-Terphenyl-d14	114			23.0-120
(S) Nitrobenzene-d5	109			14.0-149
(S) 2-Fluorobiphenyl	108			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4257884-1 08/12/25 18:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0723	90.4	50.0-120	
Anthracene	0.0800	0.0736	92.0	50.0-126	
Benzo(a)anthracene	0.0800	0.0770	96.3	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0766	95.8	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0745	93.1	49.0-125	
Benzo(a)pyrene	0.0800	0.0621	77.6	42.0-120	
Chrysene	0.0800	0.0780	97.5	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0768	96.0	47.0-125	
Fluoranthene	0.0800	0.0752	94.0	49.0-129	
Fluorene	0.0800	0.0793	99.1	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0714	89.3	46.0-125	
1-Methylnaphthalene	0.0800	0.0792	99.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0759	94.9	50.0-120	
Naphthalene	0.0800	0.0760	95.0	50.0-120	
Pyrene	0.0800	0.0757	94.6	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R4257884-1 08/12/25 18:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) p-Terphenyl-d14			109	23.0-120	
(S) Nitrobenzene-d5			108	14.0-149	
(S) 2-Fluorobiphenyl			111	34.0-125	

L1884508-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1884508-02 08/13/25 03:15 • (MS) R4257884-3 08/13/25 03:32 • (MSD) R4257884-4 08/13/25 03:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0776	ND	0.0647	0.0633	83.4	79.5	1	14.0-127			2.19	27
Anthracene	0.0776	ND	0.0648	0.0754	83.5	94.7	1	10.0-145			15.1	30
Benzo(a)anthracene	0.0776	ND	0.0677	0.0761	87.2	95.6	1	10.0-139			11.7	30
Benzo(b)fluoranthene	0.0776	ND	0.0677	0.0782	87.2	98.2	1	10.0-140			14.4	36
Benzo(k)fluoranthene	0.0776	ND	0.0665	0.0753	85.7	94.6	1	10.0-137			12.4	31
Benzo(a)pyrene	0.0776	ND	0.0658	0.0753	84.8	94.6	1	10.0-141			13.5	31
Chrysene	0.0776	ND	0.0682	0.0771	87.9	96.9	1	10.0-145			12.3	30
Dibenz(a,h)anthracene	0.0776	ND	0.0685	0.0781	88.3	98.1	1	10.0-132			13.1	31
Fluoranthene	0.0776	ND	0.0660	0.0754	85.1	94.7	1	10.0-153			13.3	33
Fluorene	0.0776	ND	0.0695	0.0684	89.6	85.9	1	11.0-130			1.60	29
Indeno(1,2,3-cd)pyrene	0.0776	ND	0.0635	0.0717	81.8	90.1	1	10.0-137			12.1	32
1-Methylnaphthalene	0.0776	ND	0.0699	0.0800	90.1	101	1	10.0-142			13.5	28
2-Methylnaphthalene	0.0776	ND	0.0668	0.0765	86.1	96.1	1	10.0-137			13.5	28
Naphthalene	0.0776	ND	0.0675	0.0773	87.0	97.1	1	10.0-135			13.5	27
Pyrene	0.0776	ND	0.0682	0.0777	87.9	97.6	1	10.0-148			13.0	35
(S) p-Terphenyl-d14					99.4	109		23.0-120				
(S) Nitrobenzene-d5					100	110		14.0-149				
(S) 2-Fluorobiphenyl					99.4	94.6		34.0-125				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

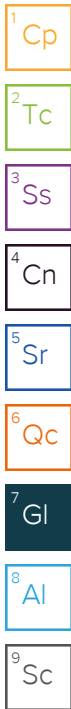
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

